



MOBILGEAR™ EP SERIES

Mobil Industrial , Philippines

Gear Oil

Product Description

Mobilgear™ EP Series are industrial extreme pressure gear oils formulated with high quality mineral oils, which help reduce sludge formation, helping to increase oil service life.

Mobilgear EP Series contain an additive system that gives high load carrying ability and protection against wear, plus protection against corrosion.

Mobilgear EP Series have good water handling properties and can be used in either splash or circulating systems.

Mobilgear EP Series are suitable for use wherever industrial gear oils are specified, and provide protection in applications where shock loading occurs.

Features and Benefits

Mobilgear EP Series can handle a variety of industrial gear applications. They are manufactured with high quality mineral stocks and a specially chosen additive system, under the highest level of quality assurance and control in our modern blending facilities.

Mobilgear EP Series offer the following benefits:

- EP wear protection of gears and bearings
- Resistance to sludge formation
- Good oxidation resistance for long oil change life
- Good demulsibility to ease water removal
- Applicable for use in splash or circulation systems

Applications

Mobilgear EP Series are suitable in a wide range of industrial spur, helical, bevel and steel-on-steel worm gearing, including drives for conveyers, agitators, dryers, fans, mixers, presses, pulpers, pumps, screens, extruders, and oil well pumps.

Specifications and Approvals

| This product meets or exceeds the requirements of: | MOBILGEAR EP 150 | MOBILGEAR EP 220 | MOBILGEAR EP 320 | MOBILGEAR EP 460 |
|--|------------------|------------------|------------------|------------------|
| China GB 5903-2011, L-CKD | X | X | X | X |

Properties and Specifications

| Property | MOBILGEAR EP 150 | MOBILGEAR EP 220 | MOBILGEAR EP 320 | MOBILGEAR EP 460 |
|---|------------------|------------------|------------------|------------------|
| Grade | ISO 150 | ISO 220 | ISO 320 | ISO 460 |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1A | 1A | 1A | |
| Density @ 15 C, g/ml, ASTM D1298 | 0.89 | | | |
| Density @ 15 C, kg/l, ASTM D4052 | | 0.89 | 0.90 | 0.90 |

| Property | MOBILGEAR 150 | EP | MOBILGEAR 220 | EP | MOBILGEAR 320 | EP | MOBILGEAR 460 | EP |
|---|---------------|----|---------------|----|---------------|----|---------------|----|
| EP Properties, Timken OK Load, lb, ASTM D2782 | 60 | | 60 | | | | 60 | |
| Emulsion, Time to 37 mL Water, 82 C, min, ASTM D1401 | 30 | | 30 | | 30 | | 35 | |
| FZG Scuffing, A/8.3/90, Fail Stage, Rating, DIN 51354 | 12+ | | 12+ | | 12+ | | 12+ | |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 230 | | | | 240 | | 240 | |
| Four-Ball Extreme Pressure Test, Load Wear Index, kgf, ASTM D2783 | 56 | | 60 | | 60 | | 60 | |
| Four-Ball Extreme Pressure Test, Weld Load, kgf, ASTM D2783 | 300 | | 300 | | 300 | | | |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 14.7 | | 19 | | 24.1 | | 30.6 | |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | | | 220 | | 320 | | 460 | |
| Pour Point, °C, ASTM D97 | -24 | | | | | | -15 | |
| Rust Characteristics, Procedure B, ASTM D665 | Pass | | Pass | | Pass | | Pass | |
| Viscosity Index, ASTM 2270 | | | | | | | 96 | |
| Viscosity Index, ASTM D2270 | 97 | | 97 | | 97 | | | |

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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05-2022

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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